

10082570\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10082570 on February 10, 2003

Original Classifications

7 367/41  
5 702/14  
4 367/48  
3 367/21  
2 367/190  
2 367/39  
2 367/40  
2 367/49  
2 367/73

Cross-Reference Classifications

7 367/41  
6 702/14  
5 367/23  
5 702/17  
4 367/190  
4 367/38  
4 367/43  
4 367/46  
3 181/113  
3 367/189  
3 367/42  
3 367/47  
3 367/49  
3 702/16  
2 181/108  
2 181/111  
2 181/114  
2 367/48  
2 367/63

Combined Classifications

14 367/41  
11 702/14  
6 367/190  
6 367/48  
6 702/17  
5 367/23  
5 367/38  
5 367/43  
5 367/46  
5 367/49  
4 367/189

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4 367/21  
4 367/42  
3 181/113  
3 367/39  
3 367/40  
3 367/47  
3 367/73  
3 702/16  
2 181/108  
2 181/111  
2 181/114  
2 367/56  
2 367/63  
2 367/75  
2 702/18

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10082570 on February 10, 2003

14	367/41	(7 OR, 7 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/41	...Transmitted correlation
11	702/14	(5 OR, 6 XR)
	Class 702 :	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
	702/1	MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
	702/2	.Earth science
	702/14	..Seismology
6	367/190	(2 OR, 4 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/140	SIGNAL TRANSDUCERS
	367/189	.Vibrator-type transmitter
	367/190	..With feedback control
6	367/48	(4 OR, 2 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/48	...Phase
6	702/17	(1 OR, 5 XR)
	Class 702 :	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
	702/1	MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
	702/2	.Earth science
	702/14	..Seismology
	702/17	...Filtering or noise reduction/removal
5	367/23	(0 OR, 5 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/15	.Offshore prospecting

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367/21 ..Signal processing  
367/23 ...Controlled source signalling

5 367/38 (1 OR, 4 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/38 ..Signal analysis and/or correction

5 367/43 (1 OR, 4 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/38 ..Signal analysis and/or correction  
367/43 ...Filters

5 367/46 (1 OR, 4 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/38 ..Signal analysis and/or correction  
367/43 ...Filters  
367/46 ....Inverse filters

5 367/49 (2 OR, 3 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/38 ..Signal analysis and/or correction  
367/49 ...Frequency

4 367/189 (1 OR, 3 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/140 SIGNAL TRANSDUCERS  
367/189 .Vibrator-type transmitter

4 367/21 (3 OR, 1 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/15 .Offshore prospecting  
367/21 ..Signal processing

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4 367/42 (1 OR, 3 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/42 ...Standard correlation

3 181/113 (0 OR, 3 XR)  
 Class 181 : ACOUSTICS  
 181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION  
 181/113 .Seismic wave generation

3 367/39 (2 OR, 1 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/39 ...Random signal correlation

3 367/40 (2 OR, 1 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/40 ...Received correlation

3 367/47 (0 OR, 3 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/47 ...Amplitude

3 367/73 (2 OR, 1 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/73 ...Synthetic seismograms and models

3 702/16 (0 OR, 3 XR)  
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
 TESTING  
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

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702/2 .Earth science  
702/14 ..Seismology  
702/16 ...Specific display system (e.g., mapping, profiling)

2 181/108 (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION  
181/108 .Seismic source and detector

2 181/111 (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION  
181/108 .Seismic source and detector  
181/111 ..Plural sources

2 181/114 (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION  
181/113 .Seismic wave generation  
181/114 ..Vehicle-mounted

2 367/56 (1 OR, 1 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/38 ..Signal analysis and/or correction  
367/56 ...Particular source-receiver array

2 367/63 (0 OR, 2 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/38 ..Signal analysis and/or correction  
367/59 ...Compositing system  
367/63 ....With preliminary signal processing

2 367/75 (1 OR, 1 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES  
367/14 SEISMIC PROSPECTING  
367/37 .Land-reflection type  
367/75 ..Shear wave

2 702/18 (1 OR, 1 XR)  
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR

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TESTING

702/1

MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

702/2

.Earth science

702/14

..Seismology

702/18

...Velocity of seismic wave

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10082570 on February 10, 2003

14	367/41	(7 OR, 7 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/41	...Transmitted correlation
11	702/14	(5 OR, 6 XR)
	Class 702 :	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
	702/1	MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
	702/2	.Earth science
	702/14	..Seismology
6	367/190	(2 OR, 4 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/140	SIGNAL TRANSDUCERS
	367/189	.Vibrator-type transmitter
	367/190	..With feedback control
6	367/48	(4 OR, 2 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/48	...Phase
6	702/17	(1 OR, 5 XR)
	Class 702 :	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
	702/1	MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
	702/2	.Earth science
	702/14	..Seismology
	702/17	...Filtering or noise reduction/removal
5	367/23	(0 OR, 5 XR)
	Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/15	.Offshore prospecting



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367/21	..Signal processing
367/23	...Controlled source signalling
5 367/38	(1 OR, 4 XR)
Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14	SEISMIC PROSPECTING
367/37	..Land-reflection type
367/38	..Signal analysis and/or correction
5 367/43	(1 OR, 4 XR)
Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14	SEISMIC PROSPECTING
367/37	..Land-reflection type
367/38	..Signal analysis and/or correction
367/43	...Filters
5 367/46	(1 OR, 4 XR)
Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14	SEISMIC PROSPECTING
367/37	..Land-reflection type
367/38	..Signal analysis and/or correction
367/43	....Filters
367/46	....Inverse filters
5 367/49	(2 OR, 3 XR)
Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14	SEISMIC PROSPECTING
367/37	..Land-reflection type
367/38	..Signal analysis and/or correction
367/49	...Frequency
4 367/189	(1 OR, 3 XR)
Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/140	SIGNAL TRANSDUCERS
367/189	..Vibrator-type transmitter
4 367/21	(3 OR, 1 XR)
Class 367 :	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14	SEISMIC PROSPECTING
367/15	..Offshore prospecting
367/21	..Signal processing

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4 367/42 (1 OR, 3 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/42 ...Standard correlation

3 181/113 (0 OR, 3 XR)  
 Class 181 : ACOUSTICS  
 181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION  
 181/113 .Seismic wave generation

3 367/39 (2 OR, 1 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/39 ...Random signal correlation

3 367/40 (2 OR, 1 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/40 ...Received correlation

3 367/47 (0 OR, 3 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/38 ..Signal analysis and/or correction  
 367/47 ...Amplitude

3 367/73 (2 OR, 1 XR)  
 Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
 SYSTEMS AND DEVICES  
 367/14 SEISMIC PROSPECTING  
 367/37 .Land-reflection type  
 367/73 ..Synthetic seismograms and models

3 702/16 (0 OR, 3 XR)  
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
 TESTING  
 702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

		10082570_CLSTITLES
702/2		.Earth science
702/14		..Seismology
702/16		...Specific display system (e.g., mapping, profiling)
2	181/108	(0 OR, 2 XR)
	Class	181 : ACOUSTICS
	181/101	GEOPHYSICAL OR SUBSURFACE EXPLORATION
	181/108	.Seismic source and detector
2	181/111	(0 OR, 2 XR)
	Class	181 : ACOUSTICS
	181/101	GEOPHYSICAL OR SUBSURFACE EXPLORATION
	181/108	.Seismic source and detector
	181/111	..Plural sources
2	181/114	(0 OR, 2 XR)
	Class	181 : ACOUSTICS
	181/101	GEOPHYSICAL OR SUBSURFACE EXPLORATION
	181/113	.Seismic wave generation
	181/114	..Vehicle-mounted
2	367/56	(1 OR, 1 XR)
	Class	367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/56	...Particular source-receiver array
2	367/63	(0 OR, 2 XR)
	Class	367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/38	..Signal analysis and/or correction
	367/59	...Compositing system
	367/63	....With preliminary signal processing
2	367/75	(1 OR, 1 XR)
	Class	367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
	367/14	SEISMIC PROSPECTING
	367/37	.Land-reflection type
	367/75	..Shear wave
2	702/18	(1 OR, 1 XR)
	Class	702 : DATA PROCESSING: MEASURING, CALIBRATING, OR

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TESTING

702/1	MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2	.Earth science
702/14	..Seismology
702/18	...Velocity of seismic wave

10082570\_EAST

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6418079  
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6316928

6388360  
4969129) .pn.

10082570\_EAST

10082570\_LIST

PLUS Search Results for S/N 10082570, Searched February 10, 2003

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4823326  
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10082570\_LIST

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6388360  
4969129



10082570\_QUAL

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5621767 69  
6316928 69

6388360 69  
4969129 69

10082570\_QUAL

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 consecutive 2  
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 contaminated 1  
 contrary 1  
 control 2  
 controlled 1  
 conventional 1  
 correlated 1  
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 correllation 1  
 correspond 1

corresponding 2  
cover 1  
crossfeed 4  
data 44  
deconvolution 4  
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deeper 1  
defined 1  
degrees 1  
delineate 1  
demonstrates 1  
denoised 1  
depends 1  
deposits 1  
derived 3  
described 1  
descript 1  
description 2  
desired 1  
detailed 3  
determined 2  
determining 1  
developed 1  
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difference 4  
different 4  
directed 1  
directly 1  
disclosed 3  
discloses 1  
discussed 1  
distinguishing 1  
distortion 5  
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drawings 2  
due 1  
during 1  
dynamite 1  
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earth 3  
edington 1  
effectiveness 1  
either 1  
emanating 1  
embodiments 2  
emitted 1  
employed 1

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energy 10  
ensure 1  
environment 1  
equivalents 1  
estimate 1  
estimates 1  
et 1  
even 1  
events 2  
example 1  
exceeding 1  
exceeds 1  
except 1  
exploration 2  
explosive 1  
extracted 1  
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figure 9  
filed 1  
find 1  
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form 2  
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generally 1  
generated 6  
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generating 1  
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ghosts 1  
giving 1  
guns 1  
hannonic 1  
harmonic 17  
harmonics 4  
has 1  
have 1  
having 2  
herein 1  
highest 3  
highly 1  
how 1

however 1  
ib 1  
ic 1  
identical 1  
if 3  
ii 1  
illustrates 7  
image 1  
images 1  
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impart 1  
imparted 1  
implosive 1  
improving 1  
impulses 1  
impulsive 1  
in 29  
include 1  
included 1  
includes 1  
including 2  
incorporated 1  
increasing 1  
increment 1  
indicate 1  
industry 1  
initial 4  
intended 1  
interfere 1  
interference 1  
into 2  
invention 16  
inverse 1  
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ir 1  
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known 2  
la 2  
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layers 1  
lb 1  
ld 1  
like 1  
likely 1  
limited 1

10082570\_WDS

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low 2  
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manner 1  
many 1  
martin 1  
mask 1  
may 10  
means 1  
method 24  
methods 2  
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mineral 1  
misleading 1  
modern 1  
modifications 1  
modified 1  
more 3  
most 1  
much 1  
multiple 3  
nature 1  
need 1  
new 1  
no 3  
noise 22  
none 1  
nonlinear 1  
not 3  
nth 1  
number 5  
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of 71  
on 5  
one 7  
only 3  
operated 2  
operating 1  
operators 1  
or 16  
order 4  
original 4  
other 3  
output 2  
panel 6



particularly 1  
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patent 3  
period 1  
permit 1  
persons 1  
phase 14  
phased 1  
phases 1  
pilot 1  
plurality 8  
portion 2  
position 3  
positioned 1  
predetermined 2  
preferred 2  
present 7  
previous 1  
prior 1  
problem 1  
problems 2  
processed 1  
processing 5  
produce 1  
produces 1  
progressively 1  
prospecting 1  
provided 1  
provides 2  
providing 1  
random 1  
range 1  
ratio 1  
readily 1  
receiver 1  
record 2  
recorded 2  
recording 1  
records 4  
reduced 1  
reducing 1  
reference 2  
referring 1  
reflection 4  
reflective 1  
reflectors 1  
refraction 2  
reitsch 1

related 1  
 relative 1  
 relatively 2  
 relies 1  
 remaining 2  
 removal 4  
 removed 3  
 removing 1  
 replaced 1  
 replacing 1  
 represent 1  
 representative 1  
 resolution 1  
 resolve 1  
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 rotated 1  
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 same 2  
 scope 1  
 second 3  
 seconds 1  
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 segments 15  
 seismic 22  
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 separating 1  
 separation 3  
 sequence 15  
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 serial 1  
 series 3  
 shifted 3  
 shifting 3  
 shortened 1  
 shorter 1  
 showing 4  
 signal 13  
 signals 12  
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 single 3  
 skilled 1  
 so 1  
 some 1  
 sonic 1  
 source 23

sources 13  
spirit 1  
stacked 2  
stacking 1  
statistical 1  
step 1  
structure 2  
substantially 2  
subsurface 4  
succeeding 1  
such 3  
sufficient 2  
summary 1  
superposition 1  
suppress 2  
suppressed 1  
suppressing 2  
suppression 1  
surfaces 1  
surveys 1  
sweep 31  
sweeps 8  
swept 7  
system 1  
target 4  
technique 1  
techniques 1  
telates 1  
than 1  
that 10  
the 114  
then 1  
there 1  
thereto 1  
these 3  
this 7  
threshold 1  
time 4  
timeconsuming 1  
times 3  
to 44  
together 2  
transformed 1  
travel 2  
type 3  
underlying 1  
understood 3  
undesirable 1

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unwanted 1  
up 2  
upon 1  
upsweep 1  
us 7  
used 9  
uses 2  
using 8  
utilize 1  
valuable 1  
vanphase 2  
variations 1  
variphase 1  
varying 1  
vertical 1  
very 1  
vibrational 2  
vibrations 2  
vibrator 5  
vibrators 2  
vibratory 3  
ward 2  
was 1  
waveform 1  
wavefronts 1  
wavelets 1  
waves 1  
weak 1  
well 2  
when 2  
where 1  
wherein 1  
which 10  
while 2  
will 4  
window 4  
with 15  
within 4

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